

Appendix table 1-17

Preparedness for first-year teaching tasks of new public middle and high school mathematics and science teachers, by minority enrollment, school poverty level, and teaching tasks: Academic years 2003–04 and 2007–08

(Percent)

Teaching field/school characteristic	Academic year 2003–04						Academic year 2007–08					
	Handle classroom management/discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Select/adapt curriculum	Handle classroom management/discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Select/adapt curriculum
Mathematics	51.3	63.5	90.8	57.1	73.0	61.3	47.1	61.1	87.8	60.2	69.7	58.8
Minority enrollment (%)												
0–5	58.2	86.8	94.4	63.9	83.6	67.0	58.9	62.7	98.9	70.9	77.2	57.6
>5–45	54.9	68.9	93.7	61.4	78.8	67.4	49.6	70.7	90.7	63.0	75.8	60.7
>45	46.3	52.5	87.6	51.7	65.2	54.6	43.2	53.8	83.7	56.4	63.9	57.5
School poverty level (%) ^a												
0–10	53.9	80.5	95.6	67.1	82.6	68.8	51.6	68.9	96.3	71.4	83.9	70.7
>10–50	51.7	67.1	91.0	56.4	73.2	63.4	47.8	64.6	85.7	57.8	70.1	56.0
>50	48.7	48.1	87.5	51.5	66.5	52.2	44.0	52.2	87.7	60.0	63.9	58.9
Science	43.7	58.0	79.0	62.4	59.3	56.5	53.0	69.1	89.0	74.7	66.6	61.2
Minority enrollment (%)												
0–5	53.1	71.2	91.7	71.4	66.5	58.0	57.1	81.2	95.1	66.8	78.7	54.2
>5–45	45.1	59.7	76.5	62.3	56.6	56.6	54.9	75.1	91.6	78.8	72.2	65.1
>45	39.0	51.8	77.3	59.4	59.8	55.9	50.1	59.9	84.8	72.2	57.9	58.9
School poverty level (%) ^a												
0–10	55.1	64.6	88.0	72.0	64.5	54.1	68.1	75.6	86.9	83.7	69.2	77.2
>10–50	43.3	60.3	78.3	59.8	57.6	57.2	52.1	68.7	89.1	74.7	67.9	60.7
>50	35.4	46.6	73.6	60.0	58.8	54.1	48.2	66.9	89.3	72.0	63.1	56.1
Other ^b	53.4	66.3	81.1	59.0	67.3	63.5	58.3	69.8	82.8	69.4	70.5	66.1
Minority enrollment (%)												
0–5	61.6	75.5	84.2	63.4	73.2	68.4	61.8	73.7	87.3	72.1	74.0	66.2
>5–45	56.2	70.5	82.1	62.7	70.8	68.4	61.7	73.7	83.1	71.6	73.4	69.0
>45	48.3	59.6	79.3	54.3	62.2	57.5	54.6	65.7	81.5	67.0	67.3	63.5
School poverty level (%) ^a												
0–10	62.2	73.2	84.2	59.9	74.0	72.9	64.6	75.2	84.0	79.4	75.2	73.2
>10–50	54.6	69.3	82.4	60.7	69.2	65.0	58.8	71.2	84.1	69.1	71.9	66.4
>50	45.9	56.9	76.7	54.9	59.9	55.7	54.0	65.1	79.8	65.8	65.9	62.2

^aSchool poverty level is percentage of students in school qualifying for free/reduced-price lunch.^bOther teachers include those who teach any subject other than mathematics or science.

NOTES: New teachers refer to teachers with fewer than 5 years of teaching experience. The Schools and Staffing survey asked these teachers how well they were prepared to perform various tasks during their first year of teaching. Response categories included "very well prepared," "well prepared," "somewhat prepared," and "not at all prepared." Percentages based on teachers responding "very well prepared" or "well prepared."

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2011) of 2003–04 and 2007–08 Schools and Staffing Survey, National Center for Education Statistics.